

AT-EQ1 Wireless Headset

[AT EQ-1 Wireless Headset Manual](#)

The AT-EQ1 Wireless headset allows full duplex



communication using wireless technology between persons wearing similar headsets. Wireless interfacing to a VHF radio also allows two way radio voice transmissions.

A typical application of this technology is in the aviation industry making your radio/communications and headset installation extremely simple. The ability to move in and out of the cockpit without catching wires on controls or projections has been solved completely. Pilot comfort level is improved while the quality of reception and transmissions are enhanced.

The applications in other operational fields where clear communication between operators are required, paired with a radio gateway, are virtually limitless.

DESIGN PHILOSOPHY



- wireless
- easy to install
- provides quiet listening in a noisy environment
- provides quality transmissions from a noisy environment
- comfortable
- simple, intuitive operation

AT-EQ1 INSTALLATION

- The base unit (communication box) is lightweight and can be positioned anywhere even using Velcro.
- Three of the wires from the supplied wiring loom are then connected to a DC supply and master switch.
- The remaining plug is plugged into the radio.

The PTT is wireless and one or multiple PTT's can be positioned

anywhere convenient to reach.

AT-EQ1 FEATURES

- The AT-EQ1 is a full duplex digital wireless system using over 20 years military RF design technology experience.
- High quality microphone using digital processing to reduce background noise.
- System is designed to interface correctly for different radio types. idiosyncrasies.
- Incorporates 4 microphones and uses active noise reduction (ANR) technology for extreme noisy environments.
- Complete wiring loom supplied with various plug in options to suit various interface requirements ie. handheld radios.
- Adaptive frequency hopping technology at 2.4GHz. (NOT bluetooth)
- Voice is digitized and compressed before being sent across the RF interface.
- The system uses TDMA protocol like GSM phones to achieve multi-channel full duplex operation.
- VOX system is adjustable by user to adapt to personal environment (no clipped words)
- 'SOFTVOX' enabled to allow for short gaps in voice data.
- 'VOX MIC' protocol used to remove non speaking party from radio transmissions
- PTT overrides headset VOX for instantaneous radio transmission
- The Base Station (small lightweight unit 125mm x 80mm x 23mm) receives and transmits information to headsets, this is the heart of the system and can be located anywhere out of sight attached with Velcro.
- The system also has full voice synthesis capability and can 'speak' many different messages and control information; all configurations are done this way (voice prompting). This can be expandable to a choice of languages.
- Audio personalized aircraft identification.
- Advanced features include, multiple wireless PTT adaptor and automatic audio routing for various situations, ie. passenger mic lockouts, MP3 input muting etc.
- The external base interface audio level is fully programmable and can interface into multiple systems

- Long life NiMH rechargeable battery including voice announced capacity and low battery warnings.
- Auto off function-- headsets will turn off automatically after end of flight.
- VHF and UHF (VHF override) operation
- No wires to tangle or break. Simple & easy to install
- Emergency power back up for 'fail safe' operation
- Built in battery charger or 240v mains and 12v car chargers with voice announced percentage of charge
- Wall charger will charge to full then trickle charge indefinitely- this means never having a flat battery after a long period on non use.
- Software upgrades via internet.

Headsets can be used independently from the base unit and can operate 'peer to peer'

The AT-EQ1 communications package includes:

- 2 x headsets with carry cases
- 1 x two place 240v wall charger,
- 1 x communications base station,
- 1 x wireless Press-to-Talk (PTT),
- 1 x Radio wiring loom.

Please be sure to advise us of the radio that you intend to use at time of purchase so that we can determine if a loom adaptor is required.

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